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## 表紙・目次

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# 非線形拡散系とその周辺

京都大学数理解析研究所

2002年4月

# Nonlinear Diffusive Systems and Related Topics

Period: October 17 - 19, 2001

Place : RIMS, Kyoto University

Chief organizer Yoshihisa Morita (Ryukoku University)

Co-organizer Eiji Yanagida (Tohoku Univeristy)

## Program

### October 17 (Wednesday)

- 13:20 - 13:30 Opening
- 13:30 - 14:20 Shoji Yotsutani (Ryukoku University)  
On a limiting system in the Lotka-Volterra  
competition with cross-diffusion
- 14:30 - 15:20 Kazuhiro Ishige (Nagoya Univeirsity)  
Blow-up problems for semilinear heat equations  
with large diffusion
- 15:20 - 15:50 Break
- 15:50 - 16:40 Shunsaki Nii (Saitama University)  
Bifurcations of travelling waves

### October 18 (Thursday)

- 10:00 - 10:50 Shigeru Sakaguchi (Ehime University)  
Stationary isothermic surfaces of the heat flow
- 11:00 - 11:50 Messoud A. Efendiev (University of Stuttgart)  
Recent development for reaction-diffusion systems  
both in bounded and unbounded domains
- 12:00 - 13:30 Lunch break
- 13:30 - 14:20 Toshiko Ogiwara (Josai University)  
Ken-Ichi Nakamura (University of Electro-Communications)  
Asymptotic behavior of solutions to a model of spiral  
crystal growth

- 14:00 - 15:00 Hiroshi Yagisita (Kyoto University)  
Backward global solutions characterizing annihilation  
dynamics of travelling fronts
- 15:00 - 15:20 Break
- 15:20 - 15:50 Yoshihito Kohsaka (Tohoku University)  
Self-similar solutions of two-point free boundary  
problem for heat equation
- 16:00 - 16:30 Satoshi Kosugi (Hokkaido University)  
Eigenvalues of elliptic operators and singular  
perturbations

October 19 (Friday)

- 10:00 - 10:50 Henri Berestycki (EHSS and University Paris VI)  
An inverse parabolic problem arising in finance
- 11:00 - 11:50 Yuzo Hosono (Kyoto Sangyo University)  
Propagation speeds of travelling waves for autocatalytic  
reaction-diffusion equations
- 11:50 - 12:00 Closing

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目 次

1. On a Limiting System in the Lotka-Volterra Competition with Cross-Diffusion-----	1
龍谷大・理工	四ッ谷 晶二(Shoji Yotsutani)
2. BLOW-UP PROBLEMS FOR SEMILINEAR HEAT EQUATIONS WITH LARGE DIFFUSION-----	13
名大・多元数理科学	石毛 和弘(Kazuhiro Ishige)
3. BIFURCATIONS AND STABILITY OF TRAVELING WAVES-----	27
埼玉大・理	新居 俊作(Shunsaku Nii)
4. Stationary isothermic surfaces of the heat flow-----	36
愛媛大・理	坂口 茂(Shigeru Sakaguchi)
5. EXISTENCE AND LONGTIME BEHAVIOR OF SOLUTIONS OF A NONLINEAR REACTION-DIFFUSION SYSTEM ARISING IN THE MODELING OF BIOFILMS----	49
Univ. of Stuttgart	Messoud A. Efendiev
National Research Centre for Environment and Health (GSF)	Hermann J. Eberl
Univ. de Poitiers	S. V. Zelik
6. Asymptotic behavior of solutions to a model of spiral crystal growth-----	72
城西大・理	萩原 俊子(Toshiko Ogiwara)
電通大	中村 健一(Ken-Ichi Nakamura)
7. Backward global solutions characterizing annihilation dynamics of travelling fronts-----	85
京大・数理研	柳下 浩紀(Hiroki Yagisita)
8. Self-similar solutions of two-point free boundary problem for heat equation-----	94
National Taiwan Normal Univ.	Jong-Sheng Guo
東北大・理学	高坂 良史(Yoshihito Kohsaka)
9. Eigenvalues of elliptic operators and singular perturbations-----	108
北大・理学	小杉 聡史(Satoshi Kosugi)
0. The Propagation Speeds of Travelling Waves for Higher Order Autocatalytic Reaction-Diffusion Systems-----	131
京産大・工	細野 雄三(Yuzo Hosono)
〃	河原 弘和(Hirokazu Kawahara)